

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

- 1                    1.        (Previously Presented) A method for generating a luminosity  
2 compensated image, the method comprising:  
3                    defining a luminosity texture having a plurality of luminosity texels;  
4                    converting pixel data for an underlying image to an image texture having a  
5 plurality of image texels;  
6                    blending the image texture onto a target surface having a shape;  
7                    blending the luminosity texture onto the target surface, thereby generating  
8 luminosity compensated pixel data for the image; and  
9                    providing a user interface enabling a user to modify the shape of the target  
10 surface,  
11                    wherein defining the luminosity texture includes automatically updating one or  
12 more of the luminosity texels in response to a user modification of the shape of the target  
13 surface.
- 1                    2.        (Original) The method of claim 1, wherein the target surface comprises a  
2 polygon having a plurality of vertices, at least one of the vertices being associated with one of  
3 the image texels of the image texture.
- 1                    3.        (Original) The method of claim 1, further comprising:  
2 providing the luminosity compensated pixel data to a display device.
- 1                    4.        (Original) The method of claim 3, wherein providing the luminosity  
2 compensated pixel data to the display device includes:  
3 storing the luminosity compensated pixel data in a frame buffer; and

4 subsequently scanning out the frame buffer data, thereby providing data to the  
5 display device.

1 5. (Original) The method of claim 1, wherein each luminosity texel includes  
2 a scaling factor.

1 6. (Original) The method of claim 5, wherein blending the luminosity  
2 texture onto the target surface includes:  
3 selecting one of the luminosity texels; and  
4 multiplying a pixel value from the target surface by the scaling factor of the  
5 selected luminosity texel.

1 7. (Original) The method of claim 5, wherein the scaling factors define a  
2 luminosity gradient to be applied across an area of the image.

8 - 9. (Canceled)

1 10. (Previously Presented) The method of claim 1, wherein automatically  
2 updating one or more of the luminosity texels includes computing a luminosity scaling factor  
3 based on a distance to a location on the target surface that maps to the texel.

1 11. (Original) The method of claim 10, wherein the distance is determined  
2 from a depth coordinate of the location on the target surface.

1 12. (Original) The method of claim 1, wherein the luminosity texture includes  
2 a low luminosity region.

1 13. (Original) The method of claim 12, wherein the low luminosity region  
2 corresponds to an overlap region in an image to be displayed using a plurality of display devices  
3 configured to display overlapping image elements.

1 14. (Original) The method of claim 1, wherein the luminosity texture includes  
2 dark texels for forming a visible pattern superimposed on the underlying image.

1                   15.     (Currently Amended) The method of claim 14, wherein the visible pattern  
2 corresponds to a textual message readable by a user.

1                   16.     (Original) The method of claim 1, further comprising:  
2 providing a user interface enabling a user to define the luminosity texture.

1                   17.     (Original) The method of claim 16, wherein the user interface further  
2 enables the user to save the luminosity texture to a file.

1                   18.     (Original) The method of claim 17, wherein the user interface further  
2 enables the user to select a previously saved luminosity texture file to be applied.

1                   19.     (Original) The method of claim 16, wherein the user interface further  
2 enables the user to modify the luminosity texture.

1                   20.     (Original) The method of claim 1, wherein each luminosity texel includes  
2 an independent scaling factor for each of a plurality of color components.

1                   21.     (Original) The method of claim 20, wherein the plurality of color  
2 components includes a red component, a green component, and a blue component.

1                   22.     (Previously Presented) A graphics processing system comprising:  
2 a texture generation module configured to convert pixel data for an underlying  
3 image to an image texture having a plurality of image texels;

4 a texture memory configured to store the underlying image texture and a  
5 luminosity texture having a plurality of luminosity texels;

6 a multistage texture blending module configured to blend each of the image  
7 texture and the luminosity texture onto a target surface having a shape, thereby generating  
8 luminosity-compensated pixel data for an image;

9 a user interface module configured to receive a user instruction modifying the  
10 shape of the target surface; and

11                   a luminosity compensation module configured to automatically update the  
12 luminosity texture stored in the texture memory in response to the user instruction modifying the  
13 shape of the target surface.

1                   23.     (Original) The graphics processing system of claim 22, wherein the target  
2 surface comprises a polygon having a plurality of vertices, at least one of the vertices being  
3 associated with a texture coordinate of the image texture.

1                   24.     (Original) The graphics processing system of claim 22, further  
2 comprising a frame buffer configured to store the luminosity-compensated pixel data.

1                   25.     (Original) The graphics processing system of claim 22, further  
2 comprising scanout control logic configured to provide the luminosity-compensated pixel data to  
3 a display device.

1                   26.     (Original) The graphics processing system of claim 22, wherein each  
2 luminosity texel includes a scaling factor.

27 - 28. (Canceled)

1                   29.     (Previously Presented) The graphics processing system of claim 22,  
2 wherein the luminosity compensation module is further configured to compute an updated value  
3 for a texel of the luminosity texture based on a distance to a location on the target surface that  
4 maps to the texel.

1                   30.     (Original) The graphics processing system of claim 29, wherein the  
2 distance is determined from a depth coordinate of the location on the target surface.

1                   31.     (Original) The graphics processing system of claim 22, wherein the  
2 luminosity texture includes a low luminosity region.

1                   32.     (Original) The graphics processing system of claim 31, wherein the low  
2     luminosity region corresponds to an overlap region in an image to be displayed using a plurality  
3     of display devices configured to display overlapping image elements.

1                   33.     (Original) The graphics processing system of claim 22, wherein the  
2     luminosity texture includes darkened texels forming a visible pattern.

1                   34.     (Currently Amended) The graphics processing system of claim 33,  
2     wherein the pattern corresponds to a textual message readable by a user.

1                   35.     (Original) The graphics processing system of claim 22, further  
2     comprising a user interface module configured to enable a user to define the luminosity texture.

1                   36.     (Previously Presented) A computer program product comprising:  
2     a computer readable medium encoded with program code, the program code  
3     including:

4                         program code for defining a luminosity texture that includes a scaling  
5     factor for each of a plurality of luminosity texels;

6                         program code for converting pixel color values of an underlying image to  
7     an image texture having a plurality of image texels;

8                         program code for blending the image texture onto a surface having a  
9     shape;

10                        program code for blending the luminosity texture onto the target surface,  
11     thereby generating luminosity compensated pixel data for the image;

12                        program code for providing a user interface enabling a user to modify the  
13     shape of the target surface; and

14                        program code for updating the scaling factor for each luminosity texel  
15     based on the modified shape of the target surface.

1                   37.    (Original) The computer program product of claim 36, wherein the  
2 computer readable medium comprises a magnetic storage medium encoded with the program  
3 code.

1                   38.    (Original) The computer program product of claim 36, wherein the  
2 computer readable medium comprises an optical storage medium encoded with the program  
3 code.

1                   39.    (Original) The computer program product of claim 36, wherein the  
2 computer readable medium comprises a carrier signal encoded with the program code and  
3 adapted for transmission via a network.

1                   40.    (Original) The computer program product of claim 36, wherein the  
2 program code further includes program code for providing a user interface enabling a user to  
3 define the luminosity texture.

1                   41 - 42. (Canceled)

1                   43.    (New) The method of claim 2, wherein the user interface comprises a  
2 handle for repositioning a vertex of the polygon.

1                   44.    (New) The method of claim 1, wherein the updated luminosity texels  
2 provide a second image with a more uniform brightness from one edge of the second image to  
3 another edge of the second image.

1                   45.    (New) The graphics processing system of claim 23, wherein the user  
2 interface module is configured to receive a repositioning of at least one vertex of the polygon.

1                   46.    (New) The graphics processing system of claim 22, wherein the updated  
2 luminosity texture provides a second image with a more uniform brightness from one edge of the  
3 second image to another edge of the second image.

47. (New) The computer program product of claim 36, wherein the updated luminosity texels provide a second image with a more uniform brightness from one edge of the second image to another edge of the second image.